

# **AIMABLE MOTION-ACTIVATED LIGHTING FIXTURE WITH ANGULATED FIELD**

## **ABSTRACT OF THE DISCLOSURE**

A motion-activated light fixture having an aimable motion detector with a zonal  
5 configuration providing improved monitoring of the region behind the motion detector. In one  
embodiment the motion detector defines a first plurality of generally forward-looking  
detection zones for monitoring the region in front of and to the sides of the motion detector,  
the forward-looking detection zones having a side-to-side coverage angle of at most 180  
degrees and having forward zones for monitoring the far region in front of the motion  
10 detector. A second plurality of detection zones for monitoring the region behind the motion  
detector forms a zonal pattern angulated with respect to the zones of the first plurality  
monitoring the far region. At least some of the detection zones of the second plurality extend  
generally in the backward direction although in some embodiments the motion detector head  
must be tilted down through a pre-established offset angle before the angulated zonal pattern  
15 begins to look backward. The motion detector may also have other detection zones forming  
zonal patterns monitoring intermediate regions. The backward looking detection zones are  
defined so as to look sufficiently downward that the amount they are shifted to angle upwards  
as the motion detector housing is angled downward is limited to a useful range so that  
individual detection zones are not rendered useless or detrimental by being aimed too high.  
20 Configurations of zonal patterns are provided for improved monitoring of the region behind  
the motion detector without compromising the ability to aim the motion detector's forward-  
looking far zones.